

SEQUENCE LISTING

<110> Eyre, David R.

<120> SYNTHETIC PEPTIDES FOR COLLAGEN RESORPTION ASSAYS

<130> WROS-1-18220

<140> US 10/009,999

<141> 2002-07-01

<150> PCT/US99/29357

<151> 1999-12-10

<150> US 09/335,098

<151> 1999-06-17

<150> US 60/141,574

<151> 1999-06-29

<150> US 60/142,274

<151> 1999-07-02

<150> US 60/142,675

<151> 1999-07-07

<150> US 09/385,740

<151> 1999-08-30

<160> 45

<170> PatentIn version 3.2

<210> 1

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to carboxy-terminal  
telo peptide sequence of human type II collagen

<400> 1

Glu Lys Gly Pro Asp  
1 5

<210> 2  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 2

Glu Lys Gly Pro Asp Pro  
 1 5

<210> 3  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 3

Glu Lys Gly Pro Asp Pro Leu  
 1 5

<210> 4  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 4

Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro  
 1 5 10

<210> 5  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 5

Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln  
 1 5 10 15

Tyr Met Arg Ala  
 20

<210> 6  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 6

Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln  
 1 5 10 15

<210> 7  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 7

Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln  
 1 5 10 15

Tyr

<210> 8  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 8

Leu Gln Tyr Met Arg Ala  
 1 5

<210> 9  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 9

Tyr Met Arg Ala  
 1

<210> 10  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 10

Glu Lys Gly Pro Asp Pro Leu Gln  
 1 5

<210> 11  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 11

Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro  
 1 5 10

<210> 12  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 12

Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln  
 1 5 10

<210> 13  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 13

Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln Tyr  
 1 5 10

<210> 14  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type II collagen

<400> 14

Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro  
 1 5 10

<210> 15  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal

telo peptide sequence of human type II collagen

<400> 15

Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln  
1 5 10 15

<210> 16

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> MISC FEATURE

<223> synthetic peptide corresponding to carboxy-terminal  
telo peptide sequence of human type II collagen

<400> 16

Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro Asp Pro Leu Gln Tyr  
1 5 10 15

<210> 17

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> MISC FEATURE

<223> synthetic peptide corresponding to carboxy-terminal  
telo peptide sequence of human type II collagen

<400> 17

Ile Asp Met Ser Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro  
1 5 10 15

Asp Pro

<210> 18

<211> 20

<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> synthetic peptide corresponding to carboxy-terminal  
telo peptide sequence of human type II collagen

<400> 18

Ile Asp Met Ser Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro  
1 5 10 15

Asp Pro Leu Gln  
20

<210> 19  
<211> 21  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> synthetic peptide corresponding to carboxy-terminal  
telo peptide sequence of human type II collagen

<400> 19

Ile Asp Met Ser Ala Phe Ala Gly Leu Gly Pro Arg Glu Lys Gly Pro  
1 5 10 15

Asp Pro Leu Gln Tyr  
20

<210> 20  
<211> 11  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE



<223> synthetic peptide corresponding to carboxy-terminal  
telo peptide sequence of human type II collagen

<400> 20

Glu Lys Gly Pro Asp Pro Leu Gln Tyr Met Arg  
1 5 10

<210> 21

<211> 7

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to amino-terminal  
telo peptide sequence of human type II collagen

<400> 21

Asp Glu Lys Ala Gly Gly Ala  
1 5

<210> 22

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to amino-terminal  
telo peptide sequence of human type II collagen

<400> 22

Asp Glu Lys Ala Gly Gly Ala Gln  
1 5

<210> 23

<211> 9

<212> PRT

<213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type II collagen

<400> 23

Asp Glu Lys Ala Gly Gly Ala Gln Leu  
 1 5

<210> 24  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type II collagen

<400> 24

Phe Asp Glu Lys Ala Gly Gly Ala  
 1 5

<210> 25  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type II collagen

<400> 25

Phe Asp Glu Lys Ala Gly Gly Ala Gln  
 1 5

<210> 26  
 <211> 10

<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> synthetic peptide corresponding to amino-terminal  
telopeptide sequence of human type II collagen

<400> 26

Phe Asp Glu Lys Ala Gly Gly Ala Gln Leu  
1 5 10

<210> 27  
<211> 13  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> synthetic peptide corresponding to amino-terminal  
telopeptide sequence of human type II collagen

<400> 27

Gly Gly Phe Asp Glu Lys Ala Gly Gly Ala Gln Leu Gly  
1 5 10

<210> 28  
<211> 16  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> synthetic peptide corresponding to amino-terminal  
telopeptide sequence of human type II collagen

<220>  
<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> Xaa is pyroglutamic acid

<400> 28

Xaa Met Ala Gly Gly Phe Asp Glu Lys Ala Gly Gly Ala Gln Leu Gly  
1 5 10 15

<210> 29

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to amino-terminal  
telopeptide sequence of human type II collagen

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> Xaa is pyroglutamic acid

<400> 29

Xaa Met Ala Gly Gly Phe Asp Glu Lys Ala Gly Gly Ala Gln Leu Gly  
1 5 10 15

Val

<210> 30

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to amino-terminal  
telopeptide sequence of human type II collagen

<400> 30

Phe Asp Glu Lys Ala Gly Gly Ala Gln Leu Gly Val  
1 5 10

<210> 31  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type II collagen

<400> 31

Asp Glu Lys Ala Gly Gly Ala Gln Leu Gly Val  
 1 5 10

<210> 32  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type III collagen

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(1)  
 <223> Xaa is pyroglutamic acid

<400> 32

Xaa Tyr Asp Ser Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly Leu  
 1 5 10 15

Ala Gly

<210> 33  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type III collagen

<400> 33

Asp Val Lys Ser Gly Val Ala Val Gly Gly  
 1 5 10

<210> 34  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type III collagen

<400> 34

Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly  
 1 5 10

<210> 35  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type III collagen

<400> 35

Ser Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly  
 1 5 10

<210> 36

<211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type III collagen

<400> 36

Asp Ser Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly  
 1 5 10

<210> 37  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to amino-terminal  
 telopeptide sequence of human type III collagen

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(1)  
 <223> Xaa is pyroglutamic acid

<400> 37

Xaa Tyr Asp Ser Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly  
 1 5 10 15

<210> 38  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen

<400> 38

Gln Tyr Asp Ser Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly  
 1 5 10 15

<210> 39

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen

<400> 39

Glu Lys Ala Gly Gly Phe  
 1 5

<210> 40

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen

<400> 40

Ile Gly Gly Glu Lys Ala Gly Gly  
 1 5

<210> 41

<211> 9

<212> PRT

<213> Homo sapiens

<220>



<221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen

<400> 41

Ile Gly Gly Glu Lys Ala Gly Gly Phe  
 1 5

<210> 42  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen

<400> 42

Ile Ala Gly Ile Gly Gly Glu Lys Ala Gly Gly  
 1 5 10

<210> 43  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen

<400> 43

Ile Ala Gly Ile Gly Gly Glu Lys Ala Gly Gly Phe  
 1 5 10

<210> 44  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen  
 <400> 44

Glu Lys Ala Gly Gly  
 1 5

<210> 45  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <223> synthetic peptide corresponding to carboxy-terminal  
 telopeptide sequence of human type III collagen  
 <400> 45

Lys Ser Gly Val Ala Val Gly Gly  
 1 5